

T7000-H: FULLY TEMP COMPENSATED ULTRA-HIGH PRECISION DIGITAL OUTPUT DUAL-AXIS TILT SENSOR



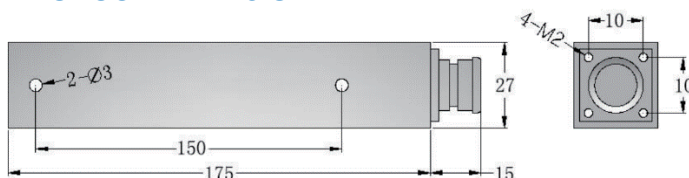
■ PRODUCT DESCRIPTION

The T7000-H is a fully temperature compensated ultra-high precision dual axis tilt sensor with a resolution of 0.0005°, an accuracy of 0.001°, and a temperature drift of 0.0005°/°C. The output interfaces RS232, RS485, RS422, Modbus, and TTL are optional. The product is equipped with professional computer software, data measurement and recording. The feature of non-contact installation has excellent system integration, convenient and convenient installation. It has the ability to resist external electromagnetic interference and withstand strong impact and vibration, and has an absolute advantage in domestic peer products.

■ PRODUCT MAIN SPECIFICATION

Parameter	Conditions	T7000-H-5	T7000-H-10	T7000-H-15	T7000-H-30	Unit
Measuring range		±5	±10	±15	±30	°
Measuring axis	axis	X, Y	X, Y	X, Y	X, Y	
Zero temperature drift	-40 ~ 85°	±0.0005	±0.0005	±0.0005	±0.0005	°/°C
Sensitivity temperature coefficient	-40 ~ 85°	≤50	≤50	≤50	≤50	ppm/°C
Frequency response	DC response	100	100	100	100	Hz
Resolution		0.0005	0.0005	0.0005	0.0005	°
Accuracy	-40 ~ 85°C	0.001	0.002	0.003	0.005	°
Long term stability	-40 ~ 85°C	<0.002	<0.003	<0.004	<0.006	°
Power-on start time		0.2				s
Response time		0.01				s
Output rate		5Hz, 15Hz, 35Hz, 50Hz can be set (RS485 does not have this function)				
Output signal		RS232/RS485/RS422/TTL/ CAN/(MODBUS Optional)				
Average working hours		≥45000 hours/time				
Impact resistance		20000g, 0.5ms, 3 times/axis				
Anti-vibration		10grms、10 ~ 1000Hz				
Insulation resistance		≥100MΩ				
Waterproof level		IP67 (IP68 can be customized)				
Cable		Standard 1.5m-length, wear-resistant, oil-proof, wide temperature, shielded cable 4*0.2mm ²				
Weight		255g (excluding packaging box)				

■ PRODUCT DIMENSION



SIZE: L175*W27*H27MM

■ PRODUCT APPLICATION

- Railway locomotive monitoring
- Precision laser platform equipment
- Vehicle chassis monitoring
- Based on tilt angle monitoring
- Pan tilt leveling
- Satellite solar antenna positioning
- Ship navigation attitude measurement
- Medical equipment
- Angle control of various construction machinery
- Precision machine tool horizontal control